



## Certificate of Analysis

Number: 6030-21060187-001A

Artesia Laboratory

200 E Main St.  
Artesia, NM 88210  
Phone 575-746-3481Chandler Montgomery  
Occidental Petroleum  
1502 W Commerce Dr.  
Carlsbad, NM 88220

June 21, 2021

|                   |                            |                    |                                   |
|-------------------|----------------------------|--------------------|-----------------------------------|
| Field:            | Lost Tank                  | Sampled By:        | Michael Mirabal                   |
| Station Name:     | Lost Tank 30-19 Fed Com 1H | Sample Of:         | Gas Spot                          |
| Station Number:   | 16102T                     | Sample Date:       | 06/16/2021 02:20                  |
| Station Location: | CTB                        | Sample Conditions: | 113 psia, @ 92 °F Ambient: 95 °F  |
| Sample Point:     | Meter                      | Effective Date:    | 06/16/2021 02:20                  |
| Formation:        | Quarterly                  | Method:            | GPA-2261M                         |
| County:           | Lea                        | Cylinder No:       | 1111-002369                       |
| Type of Sample:   | Spot-Cylinder              | Instrument:        | 70104124 (Inficon GC-MicroFusion) |
| Heat Trace Used:  | N/A                        | Last Inst. Cal.:   | 06/21/2021 0:00 AM                |
| Sampling Method:  | Fill and Purge             | Analyzed:          | 06/21/2021 12:21:17 by EJ R       |
| Sampling Company: | SPL                        |                    |                                   |

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %  | Wt. %   | GPM at<br>14.65 psia |                |       |
|------------------|------------------------|---------|---------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.000                  | 0.000   | 0.000   |                      | GPM TOTAL C2+  | 5.748 |
| Nitrogen         | 3.714                  | 3.705   | 4.543   |                      | GPM TOTAL C3+  | 2.964 |
| Methane          | 72.207                 | 72.042  | 50.591  |                      | GPM TOTAL iC5+ | 0.710 |
| Carbon Dioxide   | 4.233                  | 4.223   | 8.135   |                      |                |       |
| Ethane           | 10.455                 | 10.431  | 13.730  | 2.784                |                |       |
| Propane          | 5.365                  | 5.353   | 10.332  | 1.472                |                |       |
| Iso-butane       | 0.671                  | 0.669   | 1.702   | 0.219                |                |       |
| n-Butane         | 1.794                  | 1.790   | 4.554   | 0.563                |                |       |
| Iso-pentane      | 0.444                  | 0.443   | 1.399   | 0.162                |                |       |
| n-Pentane        | 0.510                  | 0.509   | 1.608   | 0.184                |                |       |
| Hexanes Plus     | 0.837                  | 0.835   | 3.406   | 0.364                |                |       |
|                  | 100.230                | 100.000 | 100.000 | 5.748                |                |       |

|                                       |              |            |
|---------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b> | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas             | 0.7915       | 3.2176     |
| Calculated Molecular Weight           | 22.84        | 93.19      |
| Compressibility Factor                | 0.9962       |            |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                                     |        |        |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU                    | 1209   | 5113   |
| Water Sat. Gas Base BTU             | 1188   | 5024   |
| Ideal, Gross HV - Dry at 14.65 psia | 1204.2 | 5113.2 |
| Ideal, Gross HV - Wet               | 1183.1 | 5023.7 |
| Net BTU Dry Gas - real gas          | 1098   |        |
| Net BTU Wet Gas - real gas          | 1079   |        |

**Comments:** H<sub>2</sub>S Field Content 0 ppm  
Mcf/day 3276

*Jesus Escobedo*

*Eric Ramirez*

Data reviewed by: Eric Ramirez, Analyst

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Lost Tank 30-19 Fed 31H CTB**Flare Date:** 07/05/2021**Duration of event:** 6 Hours**MCF Flared:** 710.16**Start Time:** 12:00 AM**End Time:** 06:00 AM**Cause:** Downstream Activity Issue > DCP > Zia Gas Plant Shutdown**Method of Flared Gas Measurement:** Gas Flare Meter**Well API Associated with Facility:** 30-025-45182 Lost Tank 30-19 Federal Com 31H

**Comments:** This upset event was not caused by any wells associated with the facility. The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to a third-party gas pipeline.

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**1. Reason why this event was beyond Operator's control:**

This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices.

In this case, the high line pressure spike in DCP's gas pipeline impacted Oxy's ability to send gas to them, as their downstream facility was unable to handle the gas loads sent to them as a result of DCP's, Zia Gas Plant, was shutdown unexpectedly. Until DCP's downstream facilities were able to handle the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push all its gas into DCP's gas pipeline. No advance warning was provided to Oxy personnel from DCP regarding issues with their gas system pipeline or their Zia Gas Plant. Flare event lasted from 10:30 PM on July 04, 2021 to 06:00 AM on July 05, 2021.

**2. Steps Taken to limit duration and magnitude of venting or flaring:**

In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps to take to limit duration and magnitude of flaring. Upon flaring alarms being received by the on-call Oxy production tech, DCP personnel were contacted about the unforeseeable pipeline restriction and/or shut-in and when normal gas service would be restored. Oxy was informed that the cause of the spike in DCP's pipeline pressure was due to an issue with their downstream facility, Zia Gas Plant, and no estimation of when normal gas service would be restored. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and

meeting opacity requirements. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with DCP to ensure that gas is safely directed back to sales as soon as DCP resumes normal gas services.

### **3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:**

Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of an interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. DCP's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then initiates Oxy to route all of its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with DCP personnel during these types of circumstances and whenever possible, choke back well production to reduce volume of gas flared.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

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**District III**

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**District IV**

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 51556

**QUESTIONS**

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                        |
|                                                                    | Action Number:<br>51556                                |
|                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                    |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Prerequisites</b>                                                                                                                                               |                                                  |
| Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions. |                                                  |
| Incident Well                                                                                                                                                      | [30-025-45182] LOST TANK 30 19 FEDERAL COM #031H |
| Incident Facility                                                                                                                                                  | Not answered.                                    |

|                                                                                                                                                                                                                                                                                              |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b>                                                                                                                                                                                                                                               |                                                   |
| Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.                                                                                                                                                          |                                                   |
| Was or is this venting and/or flaring caused by an emergency or malfunction                                                                                                                                                                                                                  | Yes                                               |
| Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                  | No                                                |
| Is this considered a submission for a venting and/or flaring event                                                                                                                                                                                                                           | Yes, major venting and/or flaring of natural gas. |
| An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.                                                                                              |                                                   |
| Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                             | Yes                                               |
| Did this venting and/or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water | No                                                |
| Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                      | No                                                |

|                                                           |                                                                            |
|-----------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Equipment Involved</b>                                 |                                                                            |
| Primary Equipment Involved                                | Other (Specify)                                                            |
| Additional details for Equipment Involved. Please specify | Emergency Flare > Downstream Activity Issue > DCP > Zia Gas Plant Shutdown |

|                                                                                                                               |               |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>                                                  |               |
| Please provide the mole percent for the percentage questions in this group.                                                   |               |
| Methane (CH4) percentage                                                                                                      | 72            |
| Nitrogen (N2) percentage, if greater than one percent                                                                         | 4             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                        | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                  | 4             |
| Oxygen (O2) percentage, if greater than one percent                                                                           | 0             |
| If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas. |               |
| Methane (CH4) percentage quality requirement                                                                                  | Not answered. |
| Nitrogen (N2) percentage quality requirement                                                                                  | Not answered. |
| Hydrogen Sulfide (H2S) PPM quality requirement                                                                                | Not answered. |
| Carbon Dioxide (CO2) percentage quality requirement                                                                           | Not answered. |
| Oxygen (O2) percentage quality requirement                                                                                    | Not answered. |

|                                                         |            |
|---------------------------------------------------------|------------|
| <b>Date(s) and Time(s)</b>                              |            |
| Date venting and/or flaring was discovered or commenced | 07/05/2021 |
| Time venting and/or flaring was discovered or commenced | 12:00 AM   |
| Time venting and/or flaring was terminated              | 06:00 AM   |
| Cumulative hours during this event                      | 6          |

|                                                                     |               |
|---------------------------------------------------------------------|---------------|
| <b>Measured or Estimated Volume of Vented or Flared Natural Gas</b> |               |
| Natural Gas Vented (Mcf) Details                                    | Not answered. |

|                                                                           |                                                                                                              |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: Other   Other (Specify)   Natural Gas Flared   Released: 710 Mcf   Recovered: 0 Mcf   Lost: 710 Mcf ] |
| Other Released Details                                                    | Not answered.                                                                                                |
| Additional details for Measured or Estimated Volume(s). Please specify    | Gas Flare Meter                                                                                              |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report.                                   |

| Venting or Flaring Resulting from Downstream Activity                      |                              |
|----------------------------------------------------------------------------|------------------------------|
| Was or is this venting and/or flaring a result of downstream activity      | Yes                          |
| Was notification of downstream activity received by you or your operator   | No                           |
| Downstream OGRID that should have notified you or your operator            | [229527] DCP MIDSTREAM, L.P. |
| Date notified of downstream activity requiring this venting and/or flaring | Not answered.                |
| Time notified of downstream activity requiring this venting and/or flaring | Not answered.                |

| Steps and Actions to Prevent Waste                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control. | True                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Please explain reason for why this event was beyond your operator's control                                                    | This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps to take to limit duration and magnitude of flaring. Upon flaring alarms being received by the on-call Oxy production tech, DCP personnel were contacted about the unforeseeable pipeline restriction and/or shut-in and when normal gas service would be restored. Oxy was informed that the cause of the spike in DCP's pipeline pressure was due to an issue with their downstream facility, Zia Gas Plant, and no estimation of when normal gas service would be restored. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with DCP to ensure that gas is safely directed back to sales as soon as DCP resumes normal gas services. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of an interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. DCP's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then initiates Oxy to route all of its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with DCP personnel during these types of circumstances and whenever possible, choke back well production to reduce volume of gas flared.                       |

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CONDITIONS  
  
Action 51556

CONDITIONS

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                        |
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|                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| marialuna  | If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 9/23/2021      |